Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

AUG 14 1991

91-EAB-202

Mr. Charles E. Findley
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, WA 98101

Mr. Timothy L. Nord
Hanford Project Manager
Washington State
  Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

Dear Messrs. Findley and Nord:

PHYSICAL AND CHEMICAL TREATMENT TEST FACILITIES PERMIT APPLICATION (PART A):
REVISION 1

This letter transmits Revision 1 of the Interim Status (Part A) Permit
Application for the Pacific Northwest Laboratory Physical and Chemical
Treatment Test Facilities. This revision is submitted to fulfill the
requirements of 40 CFR 270.72 for new TCLP waste codes D018 through D043 and
WAC 173-303-805 for newly added waste codes D012 through D017.

If you have any questions regarding this revised Part A permit application,
please contact Mr. C. E. Clark, DOE Field Office, Richland, on
(509) 376-9333 or FTS 444-9333.

Sincerely,

E. A. Bracken, Director
Environmental Restoration Division

CEC:ERD

Attachment

cc: P. J. Day, EPA, w/attachment
     W. W. Laity, PNL, w/out attachment

Please print or type in the unshaded areas only
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch)

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/STATE I.D. NUMBER
		W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (mo. day & yr)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

MO	DAY	YR
0 1	1	7 9

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

MO	DAY	YR

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES — CODES AND DESIGN CAPACITIES

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D82	ACRES OR HECTARES			
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS			

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	110	G		7				
2	T 0 4	500 (max), (30 U avg)	U		8				
3					9				
4					10				

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T04

This permit application covers several treatment technologies/test facilities based upon guidance received from EPA and WDOE in February 1988. This permit application covers treatment of radioactive mixed waste (RMW) and hazardous wastes via the physical and chemical R&D processes listed below. These treatment processes will be performed in three major locations: the 325 Building Shielded Analytical Laboratory, the 324 Building Radiochemical Hot-Cell Complex, and 324 Building Biological Treatment Test Facilities.

These treatment processes are usually small, bench-scale operations. The processes include:

- pH adjustment

- ion exchange for selective removal of contaminants from waste solutions

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER — Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

L I N E N O.	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES										
							1. PROCESS CODES (enter)									2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
X-1	K	0	5	4	900	P	T 0 3	D 8 0							
X-2	D	0	0	2	200	P	T 0 3	D 8 0							
X-3	D	0	0	1	100	P	T 0 3	D 8 0							
X-4	D	0	0	2			T 0 3	D 8 0							included with above

III. PROCESSES (continued)

- waste concentration by evaporation

- waste dissolution such as waste retrieval from storage tanks by pH adjustment or fusion

- precipitation/filtration and solvent extraction from solutions, slurries, and sludges

- solids washing for separation of contaminants from sludges

- catalytic destruction methods; for example: electrolytic generation of oxidants such as silver, cerium, and other electrochemically-enhanced processes for decontaminating metals and oxidizing non-metals

- grouting

5. Photocopy this page before completing if you have more than 26 wastes to list

I D NUMBER (enter from page 1)

| 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

DESCRIPTION OF DANGEROUS WASTES (continued)

	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D 0 0 1	133,000	P	T 0 4				
2	D 0 0 2	included above	P	T 0 4				
3	D 0 0 3	included above	P	T 0 4				
4	D 0 0 4	included above	P	T 0 4				
5	D 0 0 5	included above	P	T 0 4				
6	D 0 0 6	included above	P	T 0 4				
7	D 0 0 7	included above	P	T 0 4				
8	D 0 0 8	included above	P	T 0 4				
9	D 0 0 9	included above	P	T 0 4				
10	D 0 1 0	included above	P	T 0 4				
11	D 0 1 1	included above	P	T 0 4				
12	D 0 1 2	included above	P	T 0 4				
13	D 0 1 3	included above	P	T 0 4				
14	D 0 1 4	included above	P	T 0 4				
15	D 0 1 5	included above	P	T 0 4				
16	D 0 1 6	included above	P	T 0 4				
17	D 0 1 7	included above	P	T 0 4				
18	D 0 1 8	included above	P	T 0 4				
19	D 0 1 9	included above	P	T 0 4				
20	D 0 2 0	included above	P	T 0 4				
21	D 0 2 1	included above	P	T 0 4				
22	D 0 2 2	included above	P	T 0 4				
23	D 0 2 3	included above	P	T 0 4				
24	D 0 2 4	included above	P	T 0 4				
25	D 0 2 5	included above	P	T 0 4				
26	D 0 2 6	included above	P	T 0 4				

LJG 271   ECY 030-31 Form 3

CONTINUE ON REVERSE

ID NUMBER (enter from page 1)

| 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

DESCRIPTION OF DANGEROUS WASTES (continued)

	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES					2. PROCESS DESCRIPTION (if a code is not entered in D(1))
							1. PROCESS CODES (enter)					
1	D	0	2	7	included above	P	T 0 4					
2	D	0	2	8	included above	P	T 0 4					
3	D	0	2	9	included above	P	T 0 4					
4	D	0	3	0	included above	P	T 0 4					
5	D	0	3	1	included above	P	T 0 4					
6	D	0	3	2	included above	P	T 0 4					
7	D	0	3	3	included above	P	T 0 4					
8	D	0	3	4	included above	P	T 0 4					
9	D	0	3	5	included above	P	T 0 4					
10	D	0	3	6	included above	P	T 0 4					
11	D	0	3	7	included above	P	T 0 4					
12	D	0	3	8	included above	P	T 0 4					
13	D	0	3	9	included above	P	T 0 4					
14	D	0	4	0	included above	P	T 0 4					
15	D	0	4	1	included above	P	T 0 4					
16	D	0	4	2	included above	P	T 0 4					
17	D	0	4	3	included above	P	T 0 4					
18	F	0	0	1	included above	P	T 0 4					
19	F	0	0	2	included above	P	T 0 4					
20	F	0	0	3	included above	P	T 0 4					
21	F	0	0	4	included above	P	T 0 4					
22	F	0	0	5	included above	P	T 0 4					
23	K	0	4	8	included above	P	T 0 4					
24	K	0	4	9	included above	P	T 0 4					
25	K	0	5	0	included above	P	T 0 4					
26	K	0	5	1	included above	P	T 0 4					

E. Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)

A	7	8	9	0	0	0	8	9	6	7

DESCRIPTION OF DANGEROUS WASTES (continued)

	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	K 0 5 2	included above	P	T 0 4				
2	P 0 0 1	included above	P	T 0 4				
3	P 0 0 2	included in above	P	T 0 4				
4	P 0 0 3	included in above	P	T 0 4				
5	P 0 0 4	included in above	P	T 0 4				
6	P 0 0 5	included in above	P	T 0 4				
7	P 0 0 6	included in above	P	T 0 4				
8	P 0 0 7	included in above	P	T 0 4				
9	P 0 0 8	included in above	P	T 0 4				
0	P 0 0 9	included in above	P	T 0 4				
1	P 0 1 0	included in above	P	T 0 4				
2	P 0 1 1	included in above	P	T 0 4				
3	P 0 1 2	included in above	P	T 0 4				
4	P 0 1 3	included in above	P	T 0 4				
5	P 0 1 4	included in above	P	T 0 4				
6	P 0 1 5	included in above	P	T 0 4				
7	P 0 1 6	included in above	P	T 0 4				
8	P 0 1 7	included in above	P	T 0 4				
19	P 0 1 8	included in above	P	T 0 4				
20	P 0 1 9	included in above	P	T 0 4				
21	P 0 2 0	included in above	P	T 0 4				
22	P 0 2 1	included in above	P	T 0 4				
23	P 0 2 2	included in above	P	T 0 4				
24	P 0 2 3	included in above	P	T 0 4				
25	P 0 2 4	included in above	P	T 0 4				
26	P 0 2 5	included in above	P	T 0 4				

(enter "A", "B", "C" etc behind the "3" to identify photocopied pages)

ID NUMBER (enter from page 1)

| A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 | |

DESCRIPTION OF DANGEROUS WASTES (continued)

N O	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES											2. PROCESS DESCRIPTION (if a code is not entered in D(1))
							1. PROCESS CODES (enter)											
1	P	0	2	6	included in above	P	T	0	4									
2	P	0	2	7	included in above	P	T	0	4									
3	P	0	2	8	included in above	P	T	0	4									
4	P	0	2	9	included in above	P	T	0	4									
5	P	0	3	0	included in above	P	T	0	4									
6	P	0	3	1	included in above	P	T	0	4									
7	P	0	3	2	included in above	P	T	0	4									
8	P	0	3	3	included in above	P	T	0	4									
9	P	0	3	4	included in above	P	T	0	4									
10	P	0	3	5	included in above	P	T	0	4									
11	P	0	3	6	included in above	P	T	0	4									
12	P	0	3	7	included in above	P	T	0	4									
13	P	0	3	8	included in above	P	T	0	4									
14	P	0	3	9	included in above	P	T	0	4									
15	P	0	4	0	included in above	P	T	0	4									
16	P	0	4	1	included in above	P	T	0	4									
17	P	0	4	2	included in above	P	T	0	4									
18	P	0	4	3	included in above	P	T	0	4									
19	P	0	4	4	included in above	P	T	0	4									
20	P	0	4	5	included in above	P	T	0	4									
21	P	0	4	6	included in above	P	T	0	4									
22	P	0	4	7	included in above	P	T	0	4									
23	P	0	4	8	included in above	P	T	0	4									
24	P	0	4	9	included in above	P	T	0	4									
25	P	0	5	0	included in above	P	T	0	4									
26	P	0	5	1	included in above	P	T	0	4									

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1E Photocopy this page before completing if you have more than 26 wastes to list

I.O. NUMBER (enter from page 1)

| A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 | | |

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P 0 5 2	included in above	P	T 0 4				
2	P 0 5 3	included in above	P	T 0 4				
3	P 0 5 4	included in above	P	T 0 4				
4	P 0 5 5	included in above	P	T 0 4				
5	P 0 5 6	included in above	P	T 0 4				
6	P 0 5 7	included in above	P	T 0 4				
7	P 0 5 8	included in above	P	T 0 4				
8	P 0 5 9	included in above	P	T 0 4				
9	P 0 6 0	included in above	P	T 0 4				
10	P 0 6 1	included in above	P	T 0 4				
11	P 0 6 2	included in above	P	T 0 4				
12	P 0 6 3	included in above	P	T 0 4				
13	P 0 6 4	included in above	P	T 0 4				
14	P 0 6 5	included in above	P	T 0 4				
15	P 0 6 6	included in above	P	T 0 4				
16	P 0 6 7	included in above	P	T 0 4				
17	P 0 6 8	included in above	P	T 0 4				
18	P 0 6 9	included in above	P	T 0 4				
19	P 0 7 0	included in above	P	T 0 4				
20	P 0 7 1	included in above	P	T 0 4				
21	P 0 7 2	included in above	P	T 0 4				
22	P 0 7 3	included in above	P	T 0 4				
23	P 0 7 4	included in above	P	T 0 4				
24	P 0 7 5	included in above	P	T 0 4				
25	P 0 7 6	included in above	P	T 0 4				
26	P 0 7 7	included in above	P	T 0 4				

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E. Photocopy this page before completing if you have more than 26 wastes to list

ID NUMBER (enter from page 1)

A	7	8	9	0	0	0	8	9	6	7

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES					2. PROCESS DESCRIPTION (if a code is not entered in D(1))
				1. PROCESS CODES (enter)					
1	P 0 7 8	included in above	P	T 0 4					
2	P 0 7 9	included in above	P	T 0 4					
3	P 0 8 0	included in above	P	T 0 4					
4	P 0 8 1	included in above	P	T 0 4					
5	P 0 8 2	included in above	P	T 0 4					
6	P 0 8 3	included in above	P	T 0 4					
7	P 0 8 4	included in above	P	T 0 4					
8	P 0 8 5	included in above	P	T 0 4					
9	P 0 8 6	included in above	P	T 0 4					
10	P 0 8 7	included in above	P	T 0 4					
11	P 0 8 8	included in above	P	T 0 4					
12	P 0 8 9	included in above	P	T 0 4					
13	P 0 9 0	included in above	P	T 0 4					
14	P 0 9 1	included in above	P	T 0 4					
15	P 0 9 2	included in above	P	T 0 4					
16	P 0 9 3	included in above	P	T 0 4					
17	P 0 9 4	included in above	P	T 0 4					
18	P 0 9 5	included in above	P	T 0 4					
19	P 0 9 6	included in above	P	T 0 4					
20	P 0 9 7	included in above	P	T 0 4					
21	P 0 9 8	included in above	P	T 0 4					
22	P 0 9 9	included in above	P	T 0 4					
23	P 1 0 0	included in above	P	T 0 4					
24	P 1 0 1	included in above	P	T 0 4					
25	P 1 0 2	included in above	P	T 0 4					
26	P 1 0 3	included in above	P	T 0 4					

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I.D. NUMBER *(enter from page 1)*

7	8	9	0	0	0	8	9	6	7

DESCRIPTION OF DANGEROUS WASTES *(continued)*

	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*				2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	P 1 0 4	included in above	P	T 0 4				
2	P 1 0 5	included in above	P	T 0 4				
3	P 1 0 6	included in above	P	T 0 4				
4	P 1 0 7	included in above	P	T 0 4				
5	P 1 0 8	included in above	P	T 0 4				
6	P 1 0 9	included in above	P	T 0 4				
7	P 1 1 0	included in above	P	T 0 4				
8	P 1 1 1	included in above	P	T 0 4				
9	P 1 1 2	included in above	P	T 0 4				
0	P 1 1 3	included in above	P	T 0 4				
1	P 1 1 4	included in above	P	T 0 4				
2	P 1 1 5	included in above	P	T 0 4				
3	P 1 1 6	included in above	P	T 0 4				
4	P 1 1 7	included in above	P	T 0 4				
5	P 1 1 8	included in above	P	T 0 4				
6	P 1 1 9	included in above	P	T 0 4				
7	P 1 2 0	included in above	P	T 0 4				
X	P 1 2 1	included in above	P	T 0 4				
19	P 1 2 2	included in above	P	T 0 4				
20	P 1 2 3	included in above	P	T 0 4				
21	U 0 0 1	included in above	P	T 0 4				
22	U 0 0 2	included in above	P	T 0 4				
23	U 0 0 3	included in above	P	T 0 4				
24	U 0 0 4	included in above	P	T 0 4				
25	U 0 0 5	included in above	P	T 0 4				
26	U 0 0 6	included in above	P	T 0 4				

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1E   Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)

| A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES					1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U	0	0	7	included in above	P	T 0 4									
2	U	0	0	8	included in above	P	T 0 4									
3	U	0	0	9	included in above	P	T 0 4									
4	U	0	1	0	included in above	P	T 0 4									
5	U	0	1	1	included in above	P	T 0 4									
6	U	0	1	2	included in above	P	T 0 4									
7	U	0	1	3	included in above	P	T 0 4									
8	U	0	1	4	included in above	P	T 0 4									
9	U	0	1	5	included in above	P	T 0 4									
10	U	0	1	6	included in above	P	T 0 4									
11	U	0	1	7	included in above	P	T 0 4									
12	U	0	1	8	included in above	P	T 0 4									
13	U	0	1	9	included in above	P	T 0 4									
14	U	0	2	0	included in above	P	T 0 4									
15	U	0	2	1	included in above	P	T 0 4									
16	U	0	2	2	included in above	P	T 0 4									
17	U	0	2	3	included in above	P	T 0 4									
18	U	0	2	4	included in above	P	T 0 4									
19	U	0	2	5	included in above	P	T 0 4									
20	U	0	2	6	included in above	P	T 0 4									
21	U	0	2	7	included in above	P	T 0 4									
22	U	0	2	8	included in above	P	T 0 4									
23	U	0	2	9	included in above	P	T 0 4									
24	U	0	3	0	included in above	P	T 0 4									
25	U	0	3	1	included in above	P	T 0 4									
26	U	0	3	2	included in above	P	T 0 4									

continued from page 2

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

ID NUMBER (enter from page 1)

A	7	8	9	0	0	0	8	9	6	7

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES		
				1. PROCESS CODES (enter)		2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 3 3	included in above	P	T 0 1		
2	U 0 3 4	included in above	P	T 0 4		
3	U 0 3 5	included in above	P	T 0 4		
4	U 0 3 6	included in above	P	T 0 4		
5	U 0 3 7	included in above	P	T 0 4		
6	U 0 3 8	included in above	P	T 0 4		
7	U 0 3 9	included in above	P	T 0 4		
8	U 0 4 0	included in above	P	T 0 4		
9	U 0 4 1	included in above	P	T 0 4		
10	U 0 4 2	included in above	P	T 0 4		
11	U 0 4 3	included in above	P	T 0 4		
12	U 0 4 4	included in above	P	T 0 4		
13	U 0 4 5	included in above	P	T 0 4		
14	U 0 4 6	included in above	P	T 0 4		
15	U 0 4 7	included in above	P	T 0 4		
16	U 0 4 8	included in above	P	T 0 4		
17	U 0 4 9	included in above	P	T 0 4		
18	U 0 5 0	included in above	P	T 0 4		
19	U 0 5 1	included in above	P	T 0 4		
20	U 0 5 2	included in above	P	T 0 4		
21	U 0 5 3	included in above	P	T 0 4		
22	U 0 5 4	included in above	P	T 0 4		
23	U 0 5 5	included in above	P	T 0 4		
24	U 0 5 6	included in above	P	T 0 4		
25	U 0 5 7	included in above	P	T 0 4		
26	U 0 5 8	included in above	P	T 0 4		

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'TE   Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)

A 7 8 9 0 0 0 8 9 6 7

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 5 9	included in above	P	T 0 4	
2	U 0 6 0	included in above	P	T 0 4	
3	U 0 6 1	included in above	P	T 0 4	
4	U 0 6 2	included in above	P	T 0 4	
5	U 0 6 3	included in above	P	T 0 4	
6	U 0 6 4	included in above	P	T 0 4	
7	U 0 6 5	included in above	P	T 0 4	
8	U 0 6 6	included in above	P	T 0 4	
9	U 0 6 7	included in above	P	T 0 4	
10	U 0 6 8	included in above	P	T 0 4	
11	U 0 6 9	included in above	P	T 0 4	
12	U 0 7 0	included in above	P	T 0 4	
13	U 0 7 1	included in above	P	T 0 4	
14	U 0 7 2	included in above	P	T 0 4	
15	U 0 7 3	included in above	P	T 0 4	
16	U 0 7 4	included in above	P	T 0 4	
17	U 0 7 5	included in above	P	T 0 4	
18	U 0 7 6	included in above	P	T 0 4	
19	U 0 7 7	included in above	P	T 0 4	
20	U 0 7 8	included in above	P	T 0 4	
21	U 0 7 9	included in above	P	T 0 4	
22	U 0 8 0	included in above	P	T 0 4	
23	U 0 8 1	included in above	P	T 0 4	
24	U 0 8 2	included in above	P	T 0 4	
25	U 0 8 3	included in above	P	T 0 4	
26	U 0 8 4	included in above	P	T 0 4	

Continued from page 2

E. Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)

A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7

I. DESCRIPTION OF DANGEROUS WASTES (continued)

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 8 5	included in above	P	T 0 4	
2	U 0 8 6	included in above	P	T 0 4	
3	U 0 8 7	included in above	P	T 0 4	
4	U 0 8 8	included in above	P	T 0 4	
5	U 0 8 9	included in above	P	T 0 4	
6	U 0 9 0	included in above	P	T 0 4	
7	U 0 9 1	included in above	P	T 0 4	
8	U 0 9 2	included in above	P	T 0 4	
9	U 0 9 3	included in above	P	T 0 4	
10	U 0 9 4	included in above	P	T 0 4	
11	U 0 9 5	included in above	P	T 0 4	
12	U 0 9 6	included in above	P	T 0 4	
13	U 0 9 7	included in above	P	T 0 4	
14	U 0 9 8	included in above	P	T 0 4	
15	U 0 9 9	included in above	P	T 0 4	
16	U 1 0 0	included in above	P	T 0 4	
17	U 1 0 1	included in above	P	T 0 4	
18	U 1 0 2	included in above	P	T 0 4	
19	U 1 0 3	included in above	P	T 0 4	
20	U 1 0 4	included in above	P	T 0 4	
21	U 1 0 5	included ina above	P	T 0 4	
22	U 1 0 6	included in above	P	T 0 4	
23	U 1 0 7	included in above	P	T 0 4	
24	U 1 0 8	included in above	P	T 0 4	
25	U 1 0 9	included in above	P	T 0 4	
26	U 1 1 0	included in above	P	T 0 4	

Continued from page 1
Photocopy this page before completing if you have more than 26 wastes to list

I.D NUMBER (enter from page 1)

7	8	9	0	0	0	8	9	6	7

DESCRIPTION OF DANGEROUS WASTES (continued)

	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
	U 1 1 1	included in above	P	T 0 4	
	U 1 1 2	included in above	P	T 0 4	
	U 1 1 3	included in above	P	T 0 4	
	U 1 1 4	included in above	P	T 0 4	
	U 1 1 5	included in above	P	T 0 4	
	U 1 1 6	included in above	P	T 0 4	
	U 1 1 7	included in above	P	T 0 4	
	U 1 1 8	included in above	P	T 0 4	
	U 1 1 9	included in above	P	T 0 4	
	U 1 2 0	included in above	P	T 0 4	
	U 1 2 1	included in above	P	T 0 4	
	U 1 2 2	included in above	P	T 0 4	
	U 1 2 3	included in above	P	T 0 4	
	U 1 2 4	included in above	P	T 0 4	
	U 1 2 5	included in above	P	T 0 4	
	U 1 2 6	included in above	P	T 0 4	
	U 1 2 7	included in above	P	T 0 4	
	U 1 2 8	included in above	P	T 0 4	
	U 1 2 9	included in above	P	T 0 4	
	U 1 3 0	included in above	P	T 0 4	
	U 1 3 1	included in above	P	T 0 4	
	U 1 3 2	included in above	P	T 0 4	
	U 1 3 3	included in above	P	T 0 4	
	U 1 3 4	included in above	P	T 0 4	
	U 1 3 5	included in above	P	T 0 4	
	U 1 3 6	included in above	P	T 0 4	

I.D. NUMBER (enter from page 1)

| A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

DESCRIPTION OF DANGEROUS WASTES (continued)

N O	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 1 3 7	included in above	P	T 0 4	
2	U 1 3 8	included in above	P	T 0 4	
3	U 1 3 9	included in above	P	T 0 4	
4	U 1 4 0	included in above	P	T 0 4	
5	U 1 4 1	included in above	P	T 0 4	
6	U 1 4 2	included in above	P	T 0 4	
7	U 1 4 3	included in above	P	T 0 4	
8	U 1 4 4	included in above	P	T 0 4	
9	U 1 4 5	included in above	P	T 0 4	
10	U 1 4 6	included in above	P	T 0 4	
11	U 1 4 7	included in above	P	T 0 4	
12	U 1 4 8	included in above	P	T 0 4	
13	U 1 4 9	included in above	P	T 0 4	
14	U 1 5 0	included in above	P	T 0 4	
15	U 1 5 1	included in above	P	T 0 4	
16	U 1 5 2	included in above	P	T 0 4	
17	U 1 5 3	included in above	P	T 0 4	
18	U 1 5 4	included in above	P	T 0 4	
19	U 1 5 5	included in above	P	T 0 4	
20	U 1 5 6	include in above	P	T 0 4	
21	U 1 5 7	included in above	P	T 0 4	
22	U 1 5 8	included in above	P	T 0 4	
23	U 1 5 9	included in above	P	T 0 4	
24	U 1 6 0	included in above	P	T 0 4	
25	U 1 6 1	included in above	P	T 0 4	
26	U 1 6 2	included in above	P	T 0 4	

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E   Photocopy this page before completing if you have more than 26 wastes to list

I D NUMBER (enter from page 1)

A 7 8 9 0 0 0 8 9 6 7

. DESCRIPTION OF DANGEROUS WASTES (continued)

N O .	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES					
							1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	U	1	6	3	included in above	P	T 0 4					
2	U	1	6	4	included in above	P	T 0 4					
3	U	1	6	5	included in above	P	T 0 4					
4	U	1	6	6	included in above	P	T 0 4					
5	U	1	6	7	included in above	P	T 0 4					
6	U	1	6	8	included in above	P	T 0 4					
7	U	1	6	9	included in above	P	T 0 4					
8	U	1	7	0	included in above	P	T 0 4					
9	U	1	7	1	included in above	P	T 0 4					
10	U	1	7	2	included in above	P	T 0 4					
11	U	1	7	3	included in above	P	T 0 4					
12	U	1	7	4	included in above	P	T 0 4					
13	U	1	7	5	included in above	P	T 0 4					
14	U	1	7	6	included in above	P	T 0 4					
15	U	1	7	7	included in above	P	T 0 4					
16	U	1	7	8	included in above	P	T 0 4					
17	U	1	7	9	included in above	P	T 0 4					
18	U	1	8	0	included in above	P	T 0 4					
19	U	1	8	1	included in above	P	T 0 4					
20	U	1	8	2	included in above	P	T 0 4					
21	U	1	8	3	included in above	P	T 0 4					
22	U	1	8	4	included in above	P	T 0 4					
23	U	1	8	5	included in above	P	T 0 4					
24	U	1	8	6	included in above	P	T 0 4					
25	U	1	8	7	included in above	P	T 0 4					
26	U	1	8	8	included in above	P	T 0 4					

continued from page 2

TE   Photocopy this page before completing if you have more than 26 wastes to list

I D NUMBER (enter from page 1)

A	7	8	9	0	0	0	8	9	6	7	

V. DESCRIPTION OF DANGEROUS WASTES (continued)

N O	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES			
							1. PROCESS CODES (enter)			2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U	1	8	9	included in above	P	T 0 4			
2	U	1	9	0	included in above	P	T 0 4			
3	U	1	9	1	included in above	P	T 0 4			
4	U	1	9	2	included in above	P	T 0 4			
5	U	1	9	3	included in above	P	T 0 4			
6	U	1	9	4	included in above	P	T 0 4			
7	U	1	9	5	included in above	P	T 0 4			
8	U	1	9	6	included in above	P	T 0 4			
9	U	1	9	7	included in above	P	T 0 4			
10	U	1	9	8	included in above	P	T 0 4			
11	U	1	9	9	included in above	P	T 0 4			
12	U	2	0	0	included in above	P	T 0 4			
13	U	2	0	1	included in above	P	T 0 4			
14	U	2	0	2	included in above	P	T 0 4			
15	U	2	0	3	included in above	P	T 0 4			
16	U	2	0	4	included in above	P	T 0 4			
17	U	2	0	5	included in above	P	T 0 4			
18	U	2	0	6	included in above	P	T 0 4			
19	U	2	0	7	included in above	P	T 0 4			
20	U	2	0	8	included in above	P	T 0 4			
21	U	2	0	9	included in above	P	T 0 4			
22	U	2	1	0	included in above	P	T 0 4			
23	U	2	1	1	included in above	P	T 0 4			
24	U	2	1	2	included in above	P	T 0 4			
25	U	2	1	3	included in above	P	T 0 4			
26	U	2	1	4	included in above	P	T 0 4			

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E   Photocopy this page before completing if you have more than 26 wastes to list

ID NUMBER (enter from page 1)

| A | 7 | 8 | 9 | 0 | 0 | 0 | 8 | 9 | 6 | 7 |

DESCRIPTION OF DANGEROUS WASTES *(continued)*

N O.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 2 1 5	included in above	P	T 0 4				
2	U 2 1 6	included in above	P	T 0 4				
3	U 2 1 7	included in above	P	T 0 4				
4	U 2 1 8	included in above	P	T 0 4				
5	U 2 1 9	included in above	P	T 0 4				
6	U 2 2 0	included in above	P	T 0 4				
7	U 2 2 1	included in above	P	T 0 4				
8	U 2 2 2	included in above	P	T 0 4				
9	U 2 2 3	included in aboe	P	T 0 4				
10	U 2 2 4	included in above	P	T 0 4				
11	U 2 2 5	included in above	P	T 0 4				
12	U 2 2 6	included in above	P	T 0 4				
13	U 2 2 7	included in above	P	T 0 4				
14	U 2 2 8	included in above	P	T 0 4				
15	U 2 2 9	included in above	P	T 0 4				
16	U 2 3 0	included in above	P	T 0 4				
17	U 2 3 1	included in above	P	T 0 4				
18	U 2 3 2	included in above	P	T 0 4				
19	U 2 3 3	included in above	P	T 0 4				
20	U 2 3 4	included in above	P	T 0 4				
21	U 2 3 5	included in above	P	T 0 4				
22	U 2 3 6	included in above	P	T 0 4				
23	U 2 3 7	included in above	P	T 0 4				
24	U 2 3 8	included in above	P	T 0 4				
25	U 2 3 9	included in bove	P	T 0 4				
26	U 2 4 0	included in above	P	T 0 4				

Continued from page 2
NOTE Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)

M A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O.	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA-SURE (enter code)	D. PROCESSES				2. PROCESS DESCRIPTION (If a code is not entered in D(1))
							1. PROCESS CODES (enter)				
1	U	2	4	1	included in above	P	T 0 4				
2	U	2	4	2	included in above	P	T 0 4				
3	U	2	4	3	included in above	P	T 0 4				
4	U	2	4	4	included in above	P	T 0 4				
5	U	2	4	5	included in above	P	T 0 4				
6	U	2	4	6	included in above	P	T 0 4				
7	U	2	4	7	included in above	P	T 0 4				
8	U	2	4	8	included in above	P	T 0 4				
9	U	2	4	9	included in above	P	T 0 4				
10	U	3	2	8	included in above	P	T 0 4				
11	U	3	5	3	included in above	P	T 0 4				
12	U	3	5	9	included in above	P	T 0 4				
13	W	C	0	1	included in above	P	T 0 4				
14	W	C	0	2	included in above	P	T 0 4				
15	W	P	0	1	included in above	P	T 0 4				
16	W	P	0	2	included in above	P	T 0 4				
17	W	P	0	3	included in above	P	T 0 4				
18	W	T	0	1	included in above	P	T 0 4				
19	W	T	0	2	included in above	P	T 0 4				
20	D	0	0	1	880	P	S 0 1				
21	D	0	0	2	included in above	P	S 0 1				
22	D	0	0	3	included in above	P	S 0 1				
23	D	0	0	4	included in above	P	S 0 1				
24	D	0	0	5	included in above	P	S 0 1				
25	D	0	0	6	included in above	P	S 0 1				
26	D	0	0	7	included in above	P	S 0 1				

Continued from page 2

NOTE Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)
W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O .	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					2. PROCESS DESCRIPTION (If a code is not entered in D(1))
							1. PROCESS CODES (enter)					
1	D	0	0	8	included in above	P	S 0 1					
2	D	0	0	9	included in above	P	S 0 1					
3	D	0	1	0	included in above	P	S 0 1					
4	D	0	1	1	included in above	P	S 0 1					
5	D	0	1	8	included in above	P	S 0 1					
6	D	0	1	9	included in above	P	S 0 1					
7	D	0	2	2	included in above	P	S 0 1					
8	D	0	2	8	included in above	P	S 0 1					
9	D	0	2	9	included in above	P	S 0 1					
10	D	0	3	0	included in above	P	S 0 1					
11	D	0	3	3	included in above	P	S 0 1					
12	D	0	3	4	included in above	P	S 0 1					
13	D	0	3	5	included in above	P	S 0 1					
14	D	0	3	6	included in above	P	S 0 1					
15	D	0	3	8	included in above	P	S 0 1					
16	D	0	3	9	included in above	P	S 0 1					
17	D	0	4	0	included in above	P	S 0 1					
18	D	0	4	1	included in above	P	S 0 1					
19	D	0	4	3	included in above	P	S 0 1					
20	W	T	0	1	included in above	P	S 0 1					
21	W	T	0	2	included in above	P	S 0 1					
22	W	C	0	1	included in above	P	S 0 1					
23	W	C	0	2	included in above	P	S 0 1					
24	W	P	0	1	included in above	P	S 0 1					
25	W	P	0	2	included in above	P	S 0 1					
26	F	0	0	3	included in above	P	S 0 1					

Continued from page 2

NOTE   Photocopy this page before completing if you have more than 26 wastes to list

I.D. NUMBER (enter from page 1)	
W A 7 8 9 0 0 0 8 9 6 7	

IV.   DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O.	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					2. PROCESS DESCRIPTION (if a code is not entered in D(1))
							1. PROCESS CODES (enter)					
1	F	0	0	5	included in above	P	S 0 1					
2	D	0	3	1	included in above	P	S 0 1					
3	F	0	0	2	included in above	P	S 0 1					
4												
5												
6												
7												
8												
9												
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25												
26												

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The RMW and hazardous waste to be handled with physical/chemical technologies includes listed wastes, wastes from nonspecific sources, characteristic wastes, and state-only wastes. Petroleum refining wastes are also included.

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground—level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawings and photos

LATITUDE (degrees, minutes, & seconds)   LONGITUDE (degrees, minutes, & seconds)

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
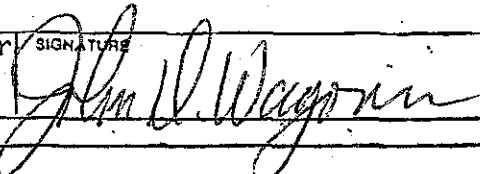
IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type) John D. Wagoner, Manager US Department of Energy Field Office, Richland	SIGNATURE	DATE SIGNED 8/13/91

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type) SEE ATTACHMENT	SIGNATURE	DATE SIGNED

ECL3E -171-   ECY 030-31 Form 3

CONTINUE ON PAGE 5

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar
with the information submitted in this and all attached documents and that
based on my inquiry of those individuals immediately responsible for obtaining
the information, I believe that the submitted information is true, accurate,
and complete. I am aware that there are significant penalties for submitting
false information, including the possibility of fine and imprisonment.

_____   8/13/91
John D. Wagoner, Manager   Date
US Department of Energy
Field Office, Richland

_____   8-13-91
William R. Wiley, Director   Date
Pacific Northwest Laboratory

V. FACILITY DRAWING (see page 4)

Drawings of 325 Building Shielded Analytical Laboratory, 324 Building Radio-
chemical Hot Cell Complex, and the 324 Building Biological Treatment Test
Facilities follow.

325 Building First Floor

The Shielded Analytical Laboratory includes Rooms 200, 201, 202, and 203 of the first floor of the 325 Building.

325 Shielded
Analytical
Laboratory

325 Building Basement
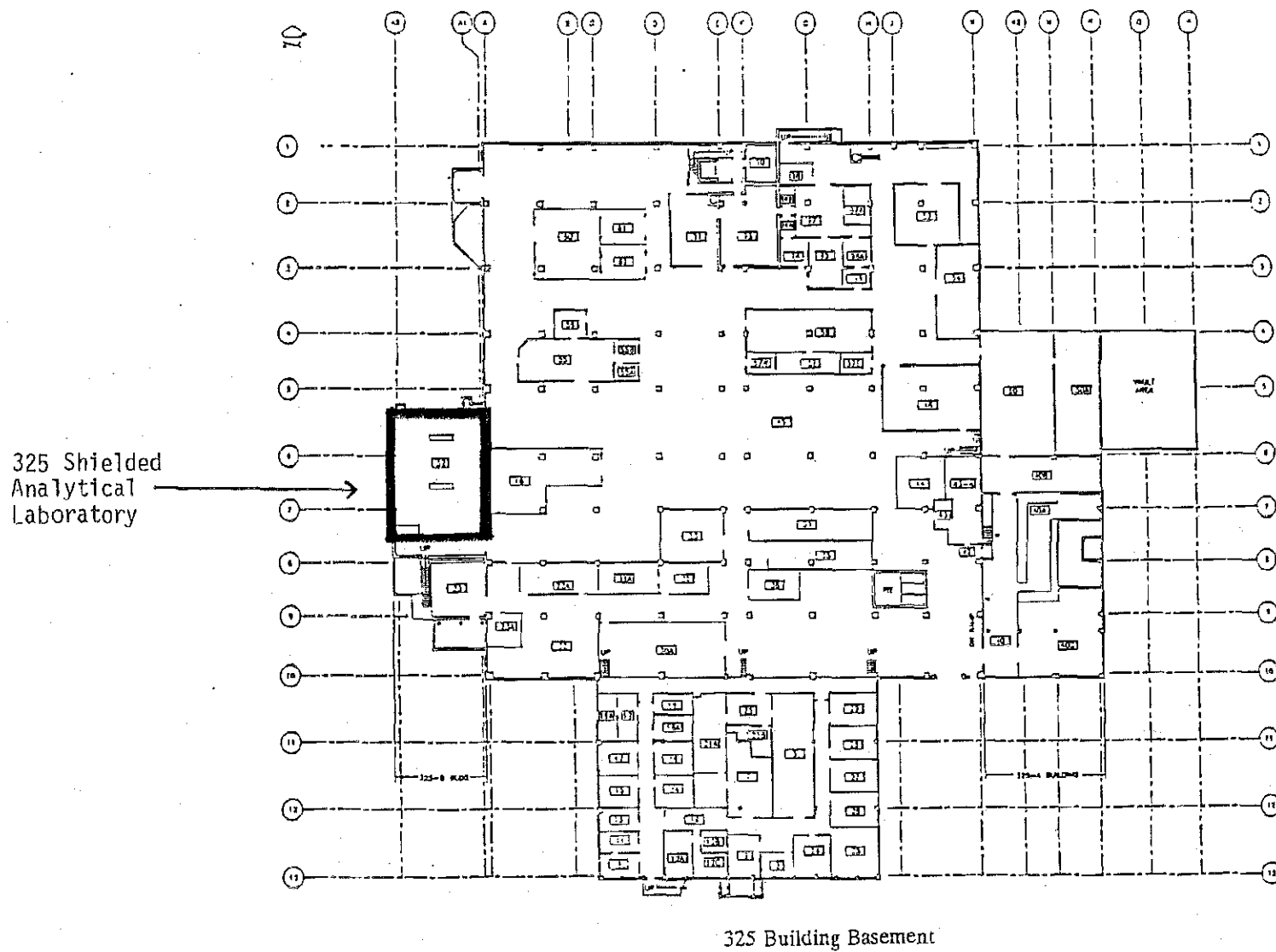
The 325 Building Basement, Room 32 contains a tank and portions of plumbing connected to the SAL hot cells on the first floor.
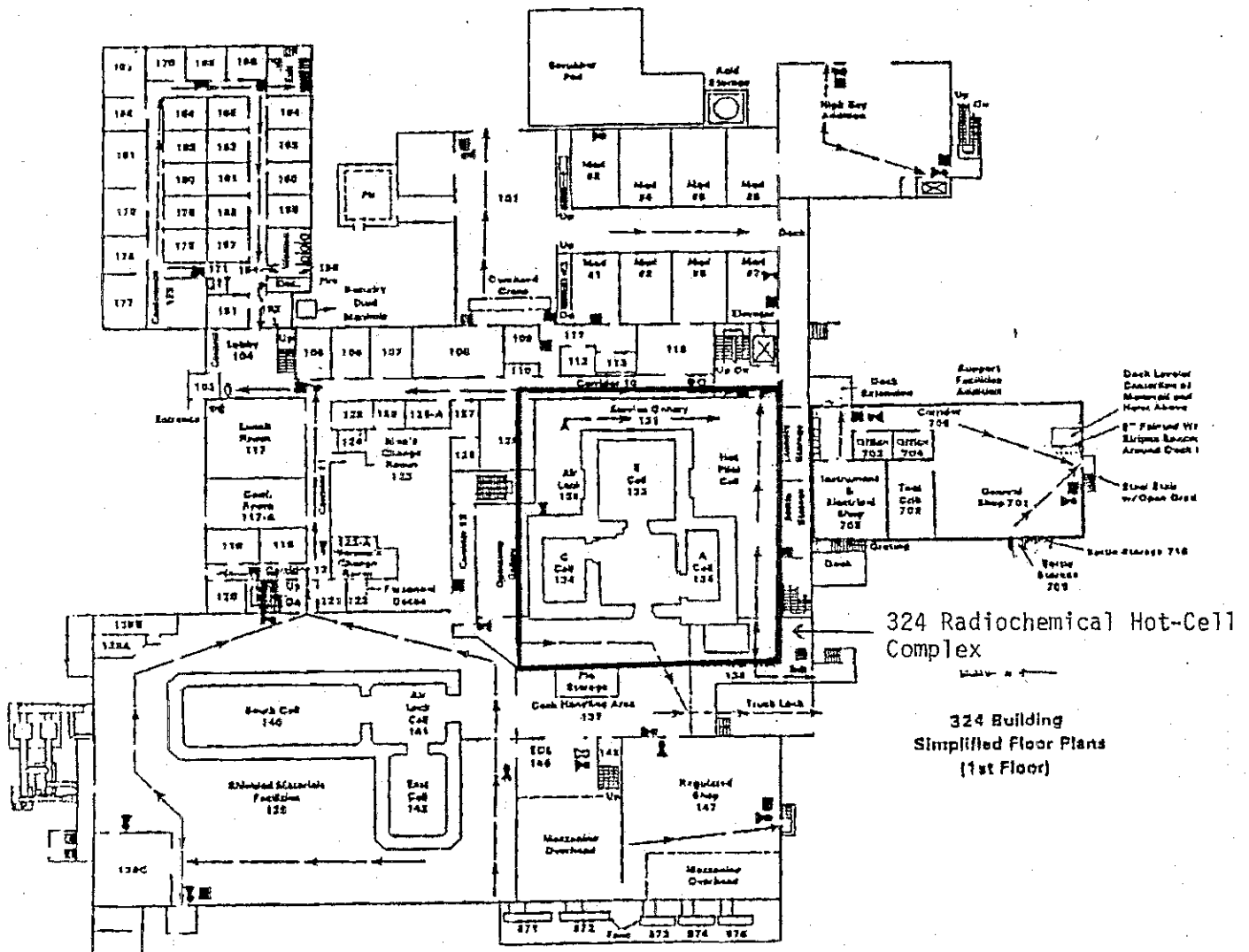
324 Radiochemical Hot-Cell Complex

324 Building
Simplified Floor Plans
(1st Floor)

Fire Alarm Pull Boxes
Fire Extinguisher (A,B,C)
Fire Extinguisher (D)
Main Fire Alarm Panel
Main Fire Water Valve
Evacuation Route

324 Radiochemical
Hot-Cell Complex

324 Building
Simplified Floor Plans
(2nd Floor)

■ Fire Alarm Pull Boxes
▶ Fire Extinguisher (A,B,C)
○○ Fire Extinguisher (C)
◄── Evacuation Route

324 Radiochemical
Hot-Cell Complex
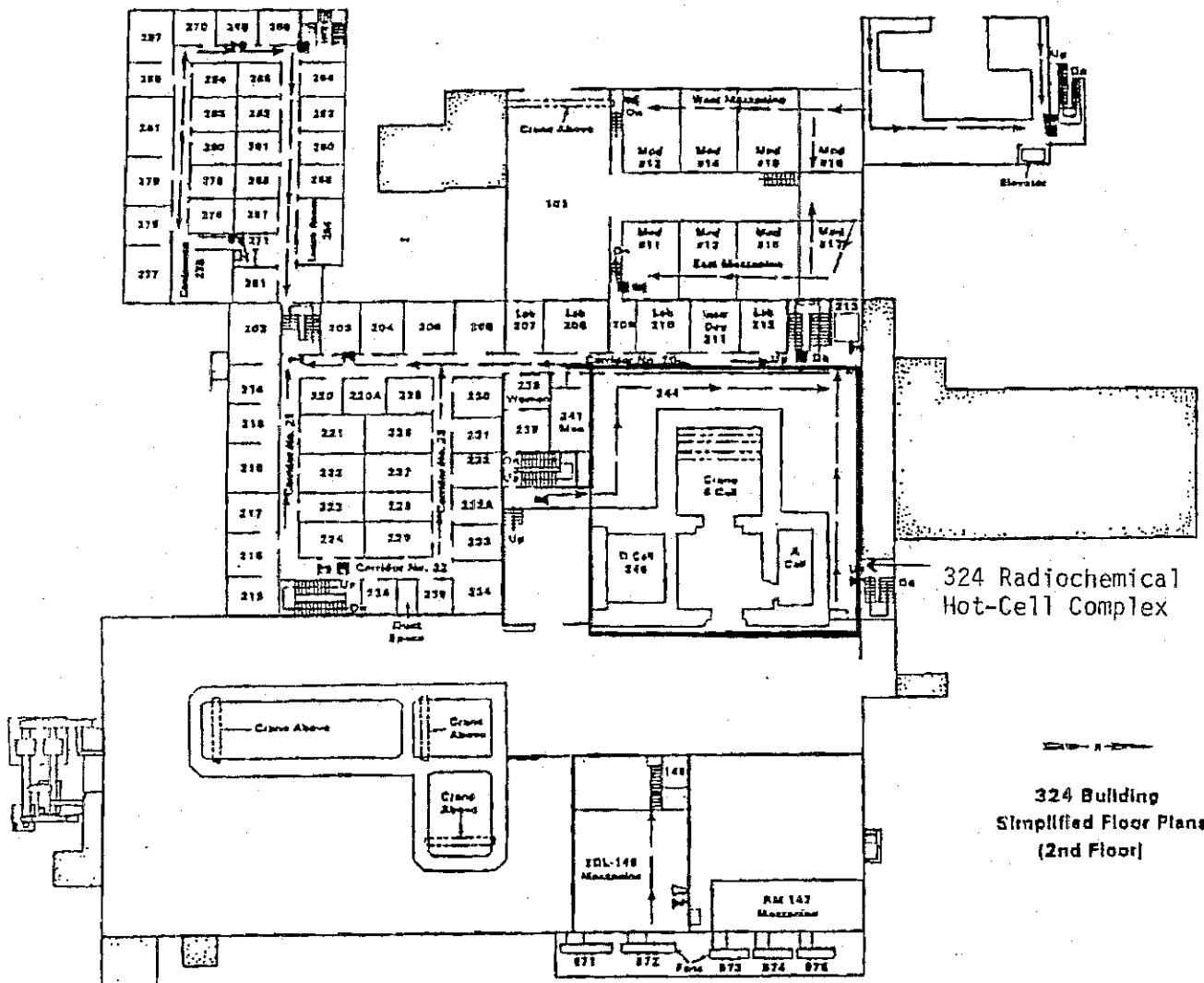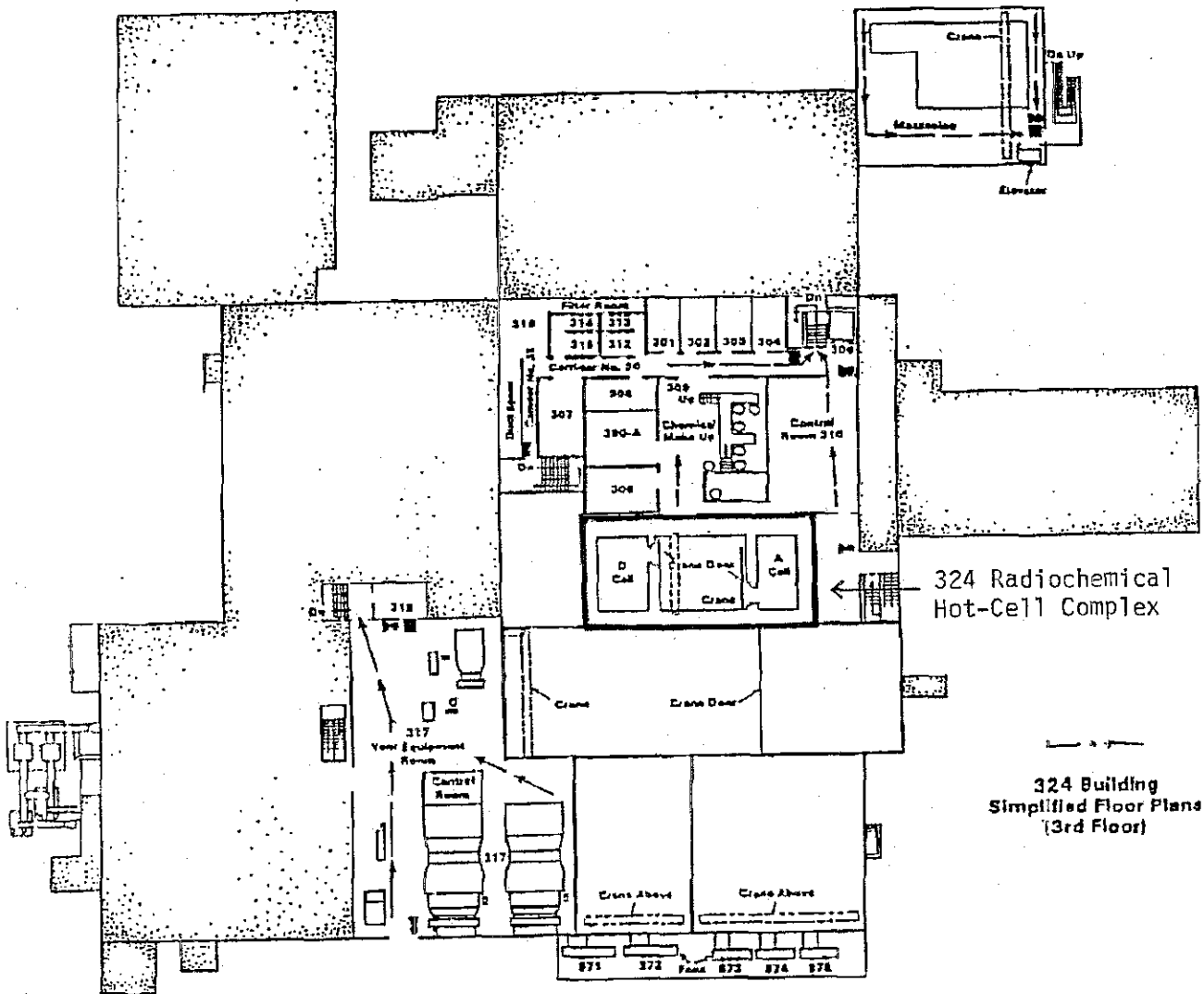
324 Building
Simplified Floor Plans
(3rd Floor)

Fire Alarm Pull Boxes
Fire Extinguisher (A,B,C)
Fire Extinguisher (D)
Evacuation Route

324 Radiochemical
Hot-Cell Complex

324 Building
Simplified Floor Plans
(Basement)

Legend:
- Fire Alarm Pull Boxes
- Fire Extinguisher (A,B,C)
- Fire Extinguisher (C)
- Main Fire Alarm Panel
- Main Fire Water Valve
- Evacuation Route

324 Building - Biological Treatment Test Facilities

Scrubber Pad

Acid Storage

High Bay Addition

Up Dn

187 170 166 169 Exit

168 184 166 164

181 182 183 102

180 181 160

175 178 161 162

176 179 157

171 154 135

Pln

Med #2 Med #4 Med #6 Med #8

101

Up

Dn

Med #1 Med #3 Med #5 Med #7

Overhead Crane

Up

Dn

Elevator

Security Duct Manitol

Women

Men

Elec.

Fire

Confeence 173

191 182

Lobby 104

Up

105 106

108

109

111

115

112 113 116

Corridor 10

Up Dn

103

Entrance

Lunch Room 117

120 176 126-A 127

124

Men's Change Room 123

128

125

Service Gallery 131

Deck Extension

Corridor 706

Support Facilities Addition

Deck Lavator Centerline of Monorail end Hoist Above

Cont. Room 117-A

Air Lock 126

B Cell 133

Hot Pipe Cell

Laundry Storage

Bottle Storage

Office 703 Office 704

Instrument & Electrical Shop 705

Tool Crib 702

General Shop 701

8" Painted Wr Suppot Sysem Around Dock

Steel Stair W/Open Grat

118 118

123-A Women's Change Room

Operating Gallery

C Cell 134

A Cell 132

Bottle Storage 710

120

121 122

Personnel Decon

Corridor 12

Up Dn

Deck

Grating

Bottle Storage 709

139B

139A

Pln Storage

Load Out Blok 135

138C

South Cell 140

Air Lock Cell 141

Deck Handling Area 137

Truck Lock

Shielded Materials Facilities 139

Seat Cell 142

EDL 148

145

Up

Regulated Shop 147

Mezzaning Overhead

Mezzaning Overhead

971 972 973 974 975

324 Building
Simplified Floor Plans
(1st Floor)

Fire Alarm Pull Boxes
Fire Extinguisher (A,B,C)
Fire Extinguisher (D)
Main Fire Alarm Panel
Main Fire Water Valve

324 Building Biological Treatment Test Facilities
First Floor Plan, Northwest Segment of Building

First Floor Enlargement

Legend

- (P) Telephone
- (F) Fire Extinguisher (A,B,C)
- (S) Safety Shower and Eyewash
- (SC) Spill Control Equipment
- ■ Fire Alarm Pull Box

Feet

0   10   20

N →

Roll-Up Door

Storage

Pilot-Scale Biological Treatment Process

Treated Effluent to Tank Pit (Basement)

Catch Pan

Removable access to Tank Pit (Basement)

Overhead Crane

Safety Cabinets Apparel & SCBAs

101 - High Bay

Office

Office

Office

Toilet (Men)

115

UP

Laboratory- and Bench-Scale Biological Treatment

Elevator

324 Building - Biological Treatment Test Facilities

324 Building
Simplified Floor Plans
(Basement)

Legend:
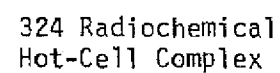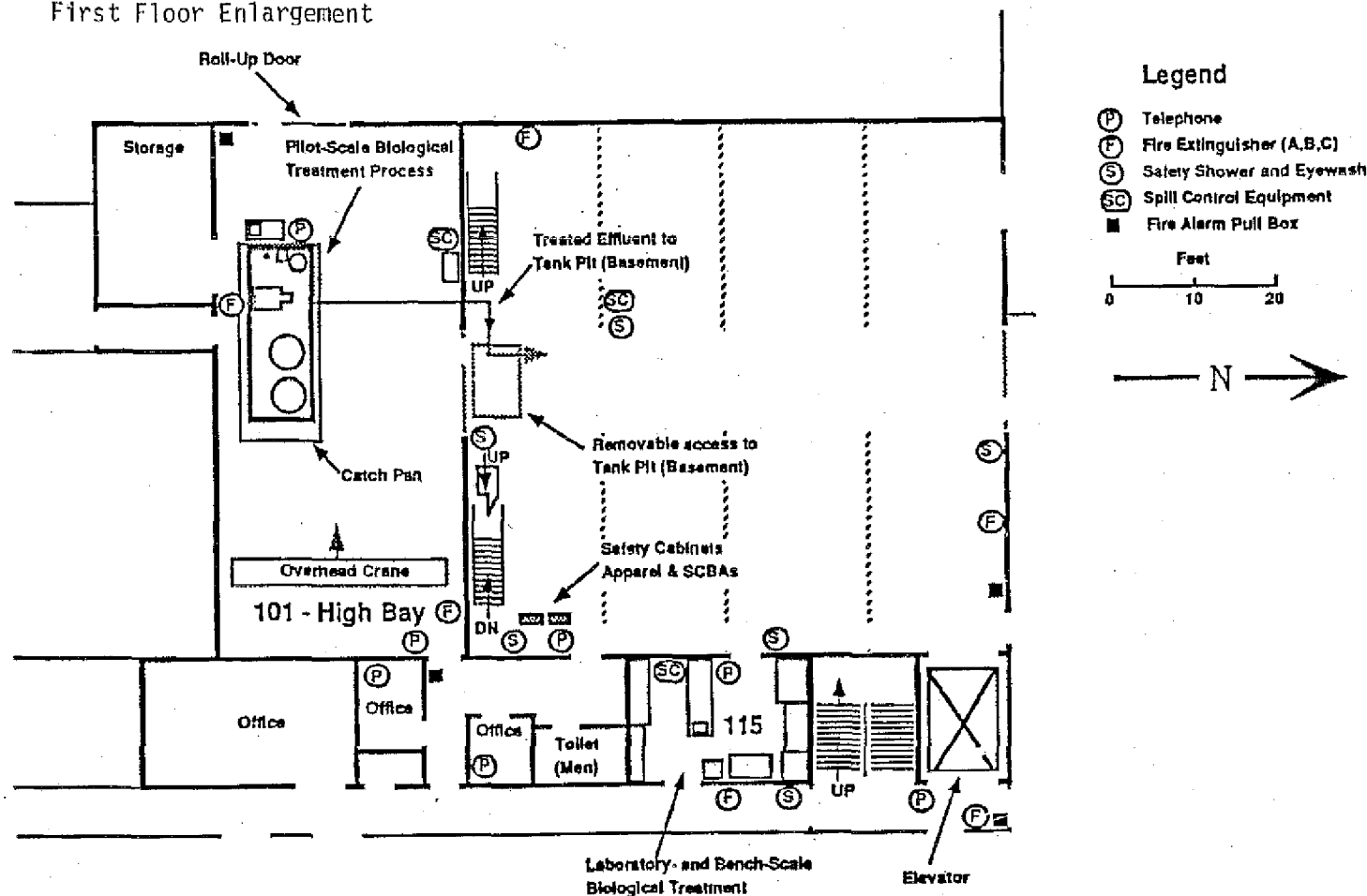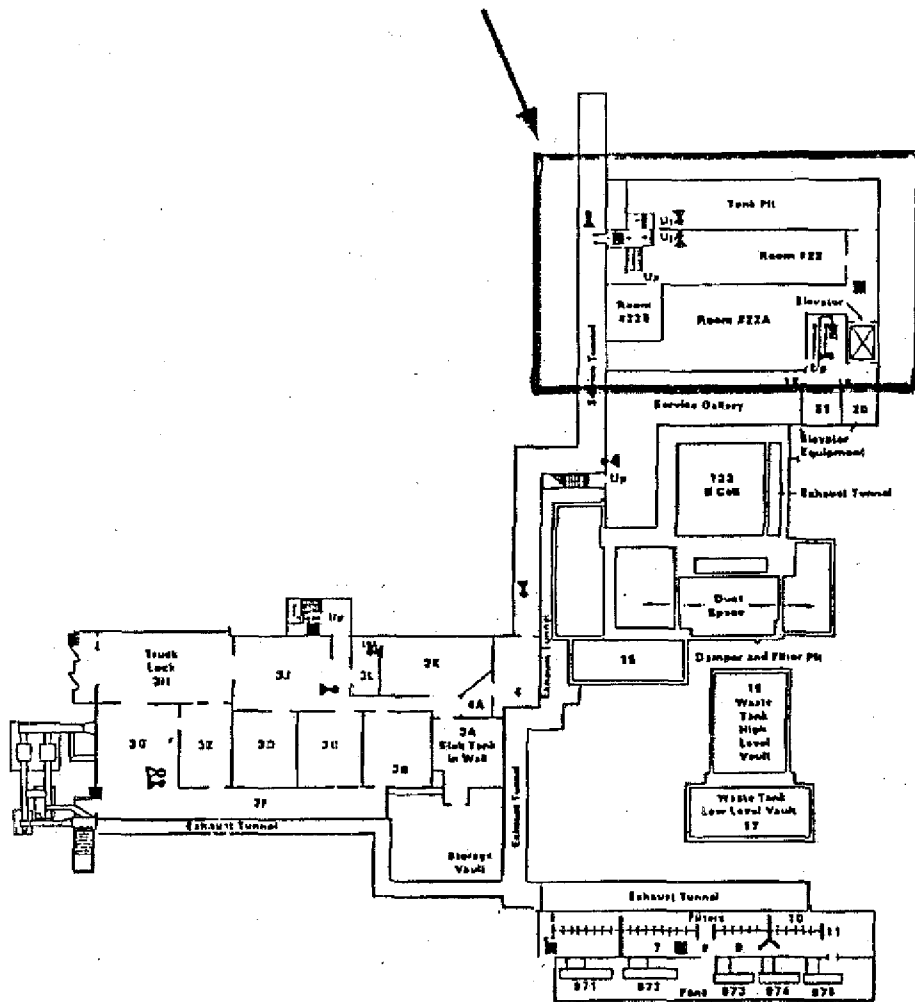- ■ Fire Alarm Pull Boxes
- ▶● Fire Extinguisher (A,B,C)
- ▷◁ Fire Extinguisher (D)
- ◇ Main Fire Alarm Panel
- ⊗ Main Fire Water Valve

324 Building Biological Treatment Test Facilities
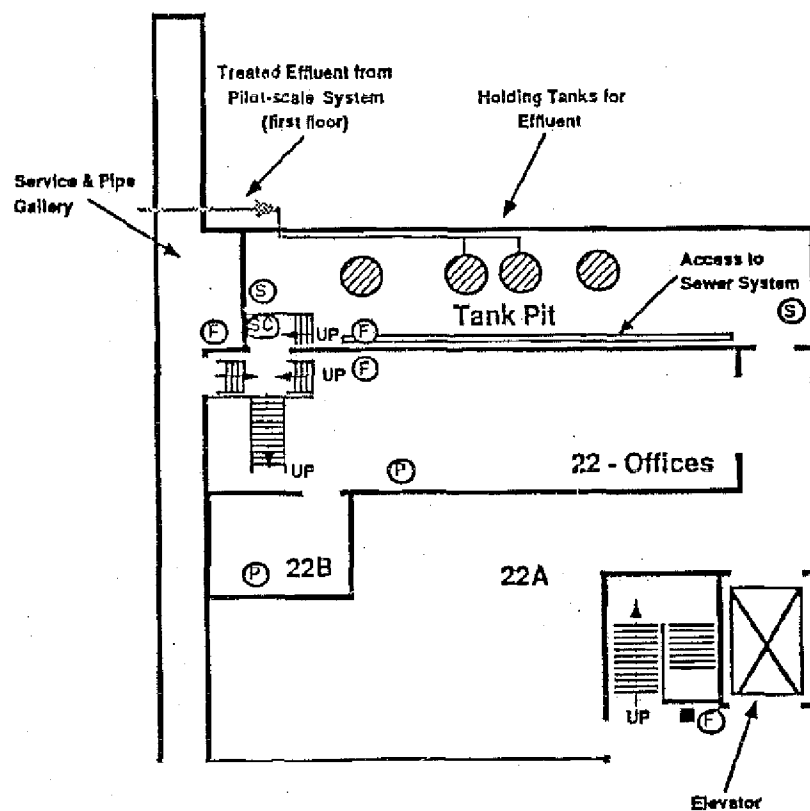# Basement Plan, Northwest Segment of Building

Basement Enlargement

Treated Effluent from
Pilot-scale System
(first floor)

Holding Tanks for
Effluent

Service & Pipe
Gallery

Access to
Sewer System

Tank Pit

UP

UP

UP

22 - Offices

22B

22A

UP

Elevator

Legend

Ⓟ Telephone
Ⓕ Fire Extinguisher (A,B,C)
Ⓢ Safety Shower and Eyewash
SC Spill Control Equipment
▮ Fire Alarm Pull Box

Feet

0   10   20

N